FIG.1

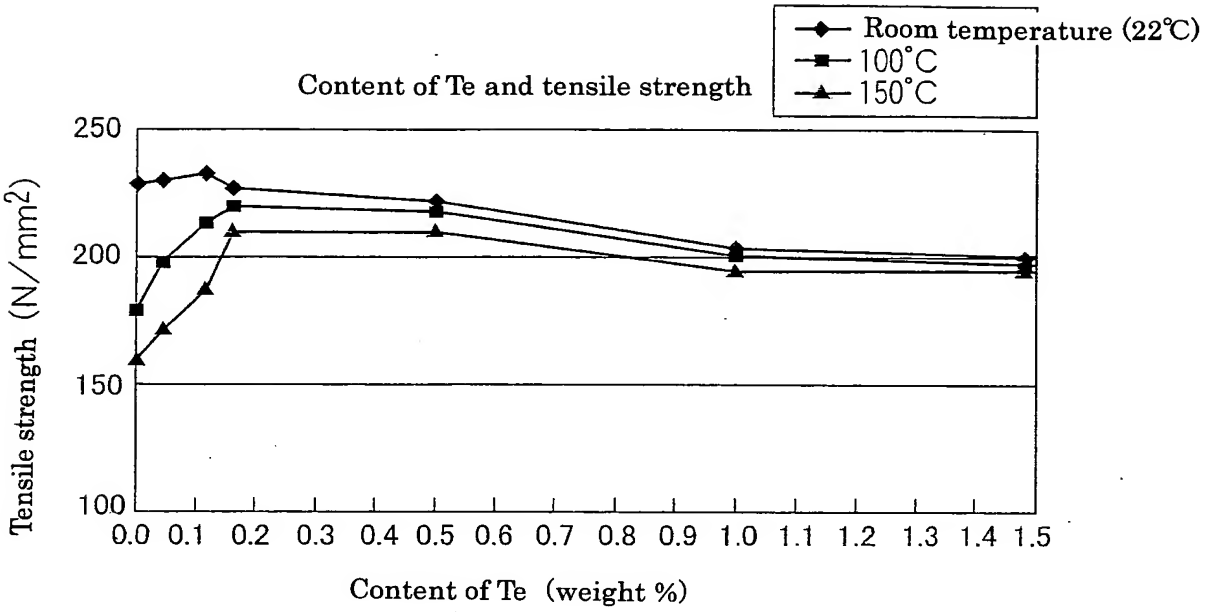

Room temperature (22℃)
100°C
150°C
Content of Te and tensile strength
Tensile strength (N/mm²)
250
200
150
100
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5
Content of Te (weight %)

FIG.2

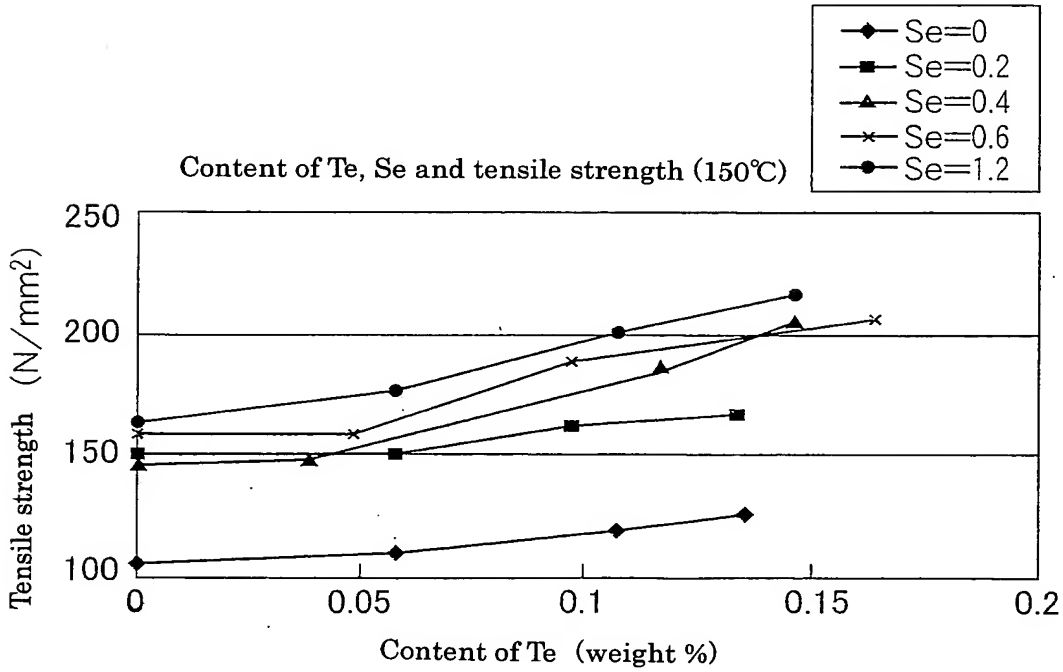

Se=0
Se=0.2
Se=0.4
Se=0.6
Se=1.2
Content of Te, Se and tensile strength (150℃)
Tensile strength (N/mm²)
250
200
150
100
0
0.05
0.1
0.15
0.2
Content of Te (weight %)

FIG.3

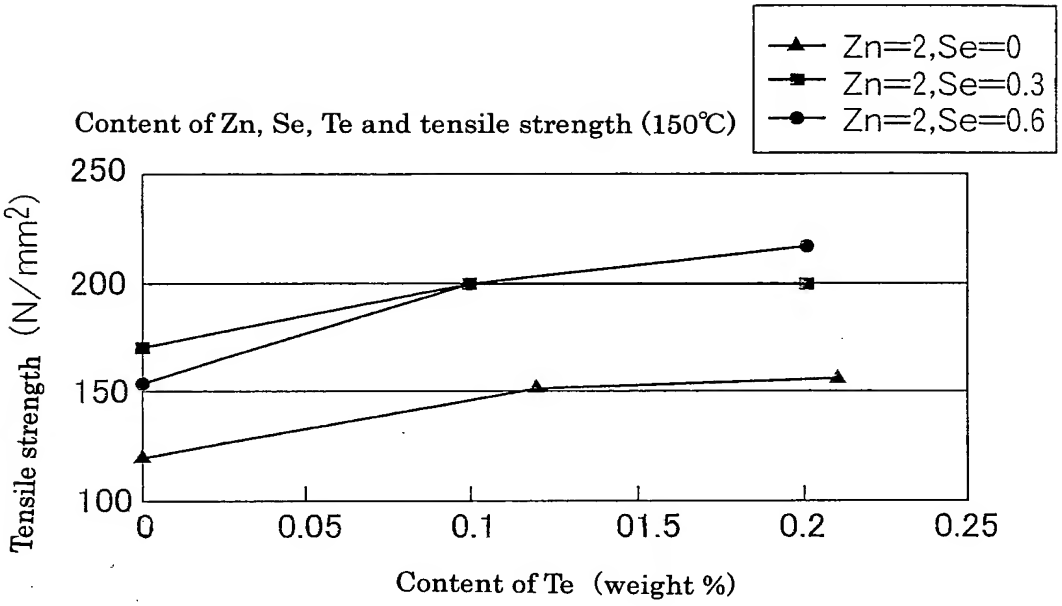

Zn=2,Se=0
Zn=2,Se=0.3
Zn=2,Se=0.6
Content of Zn, Se, Te and tensile strength (150℃)
Tensile strength (N/mm2)
250
200
150
100
0
0.05
0.1
01.5
0.2
0.25
Content of Te (weight %)

FIG.4

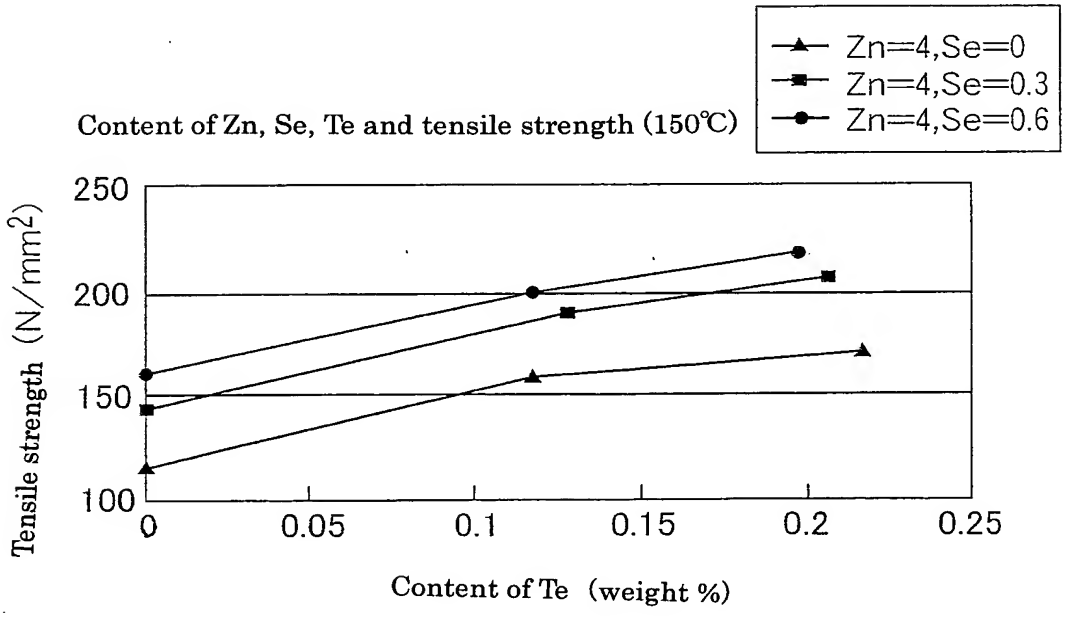

Zn=4,Se=0
Zn=4,Se=0.3
Zn=4,Se=0.6
Content of Zn, Se, Te and tensile strength (150℃)
Tensile strength (N/mm2)
250
200
150
100
0
0.05
0.1
0.15
0.2
0.25
Content of Te (weight %)

FIG.5

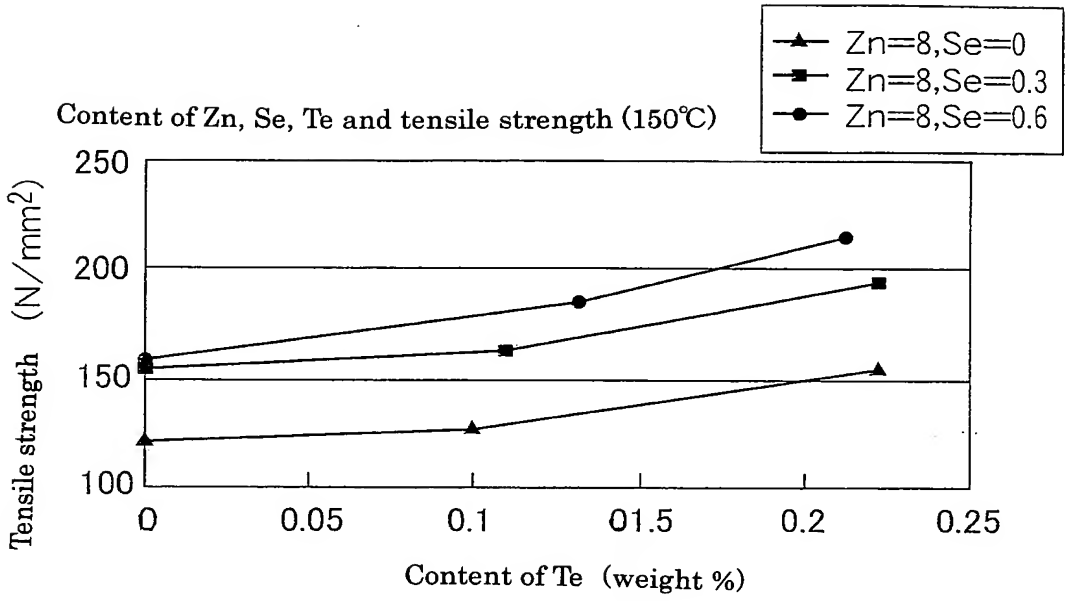

Zn=8,Se=0
Zn=8,Se=0.3
Zn=8,Se=0.6
Content of Zn, Se, Te and tensile strength (150℃)
Tensile strength (N/mm2)
250
200
150
100
0
0.05
0.1
01.5
0.2
0.25
Content of Te (weight %)

FIG.6

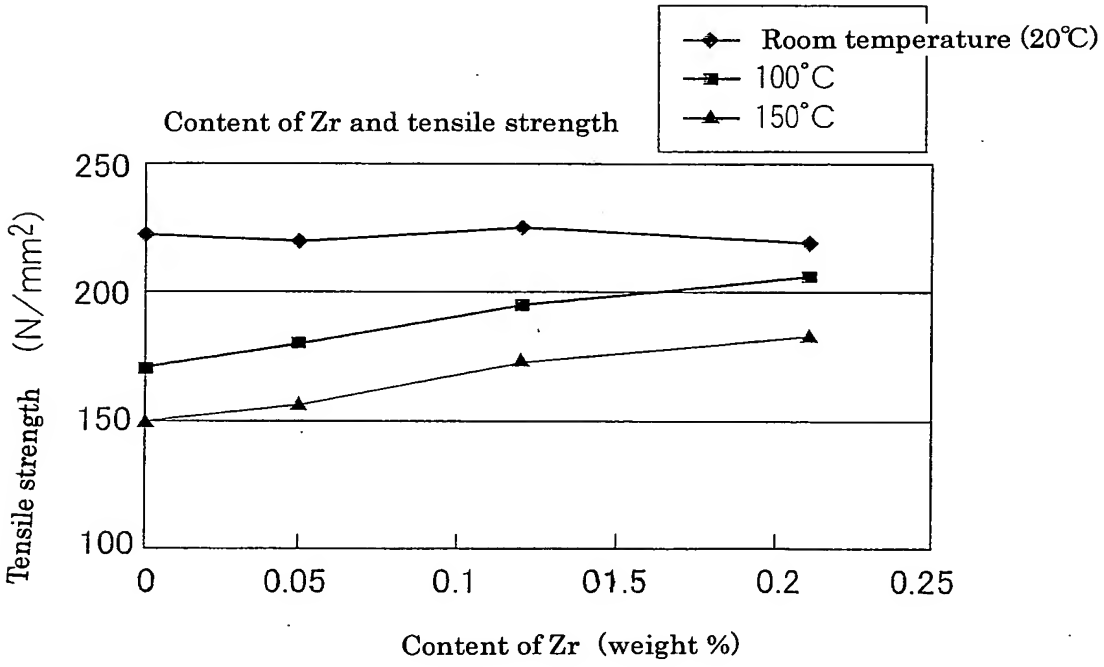

Room temperature (20℃)
100°C
150°C
Content of Zr and tensile strength
Tensile strength (N/mm2)
250
200
150
100
0
0.05
0.1
01.5
0.2
0.25
Content of Zr (weight %)

FIG.7

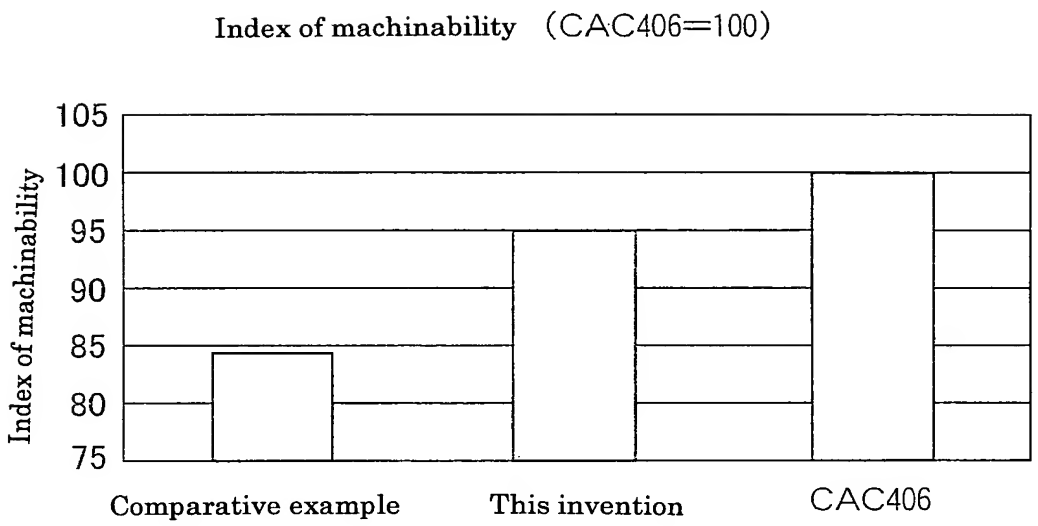

Index of machinability (CAC406=100)
Index of machinability
105
100
95
90
85
80
75
Comparative example
This invention
CAC406

FIG.8

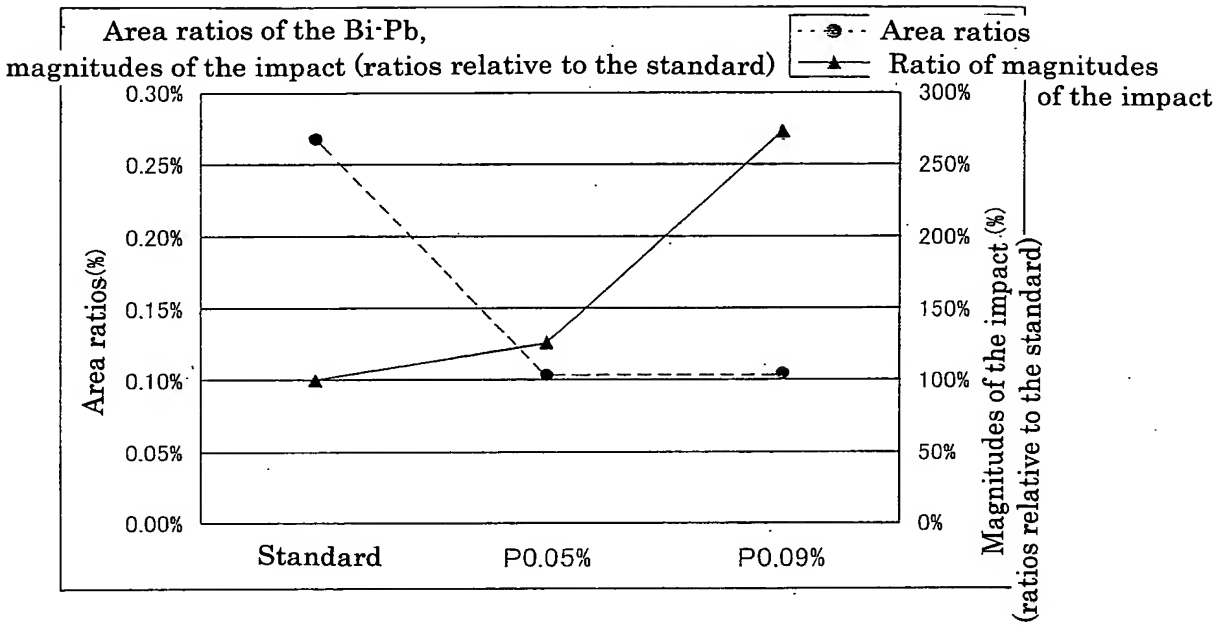

Area ratios of the Bi-Pb,
magnitudes of the impact (ratios relative to the standard)
Area ratios
Ratio of magnitudes of the impact
0.30%
0.25%
0.20%
0.15%
0.10%
0.05%
0.00%
Area ratios(%)
300%
250%
200%
150%
100%
50%
0%
Magnitudes of the impact (%)
(ratios relative to the standard)
Standard
P0.05%
P0.09%

FIG.9

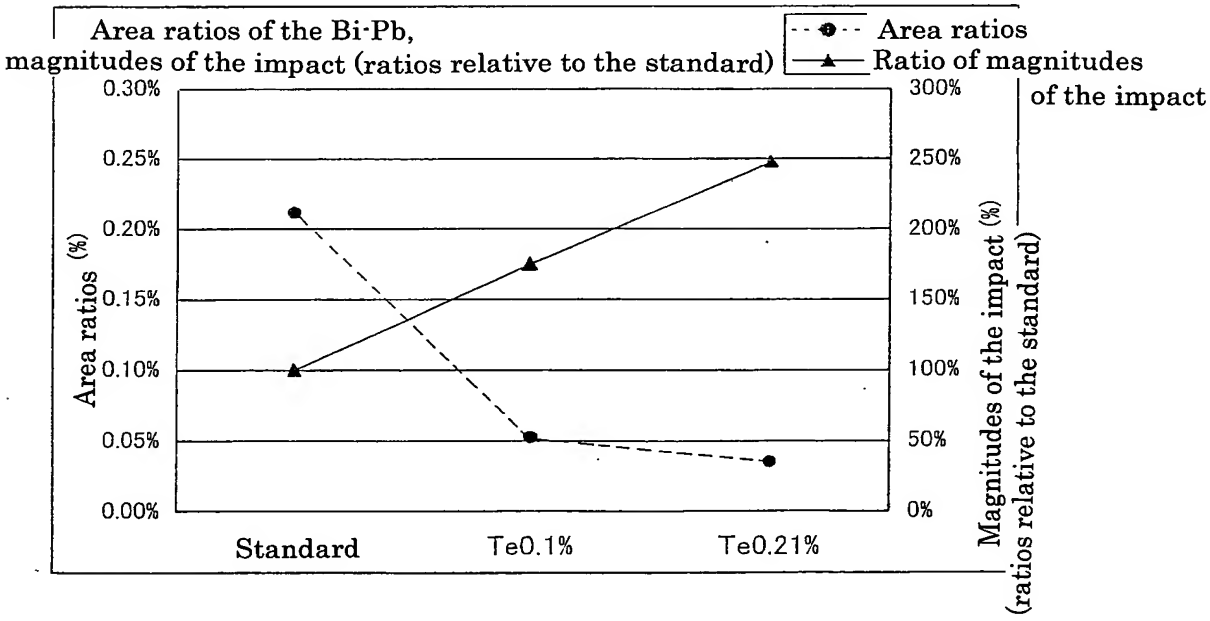

Area ratios of the Bi-Pb,
magnitudes of the impact (ratios relative to the standard)
Area ratios
Ratio of magnitudes of the impact
0.30%
0.25%
0.20%
0.15%
0.10%
0.05%
0.00%
Area ratios (%)
300%
250%
200%
150%
100%
50%
0%
Magnitudes of the impact (%)
(ratios relative to the standard)
Standard
Te0.1%
Te0.21%

FIG.10

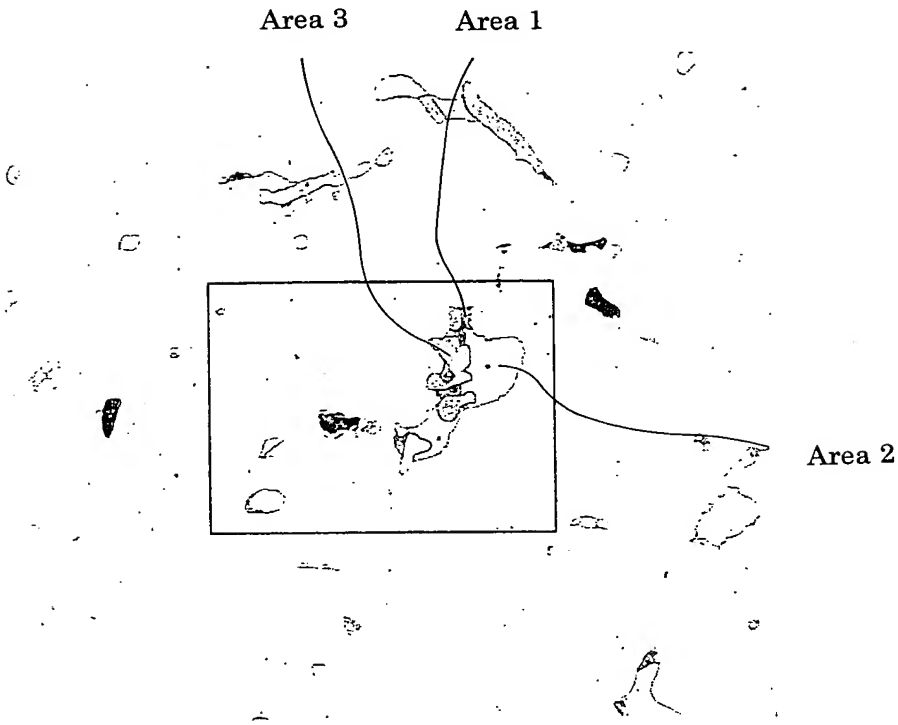
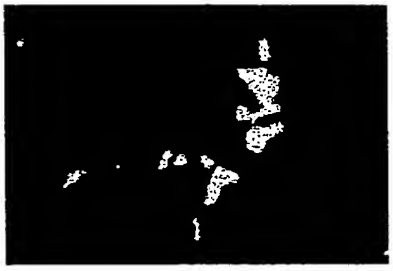


FIG.11

Copper Ka1



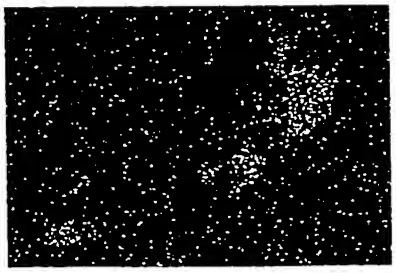
Zinc Ka1

Selenium Ka1

Lead La1

Tin La1

Bismuth La1



Chrome Ka1

FIG.12

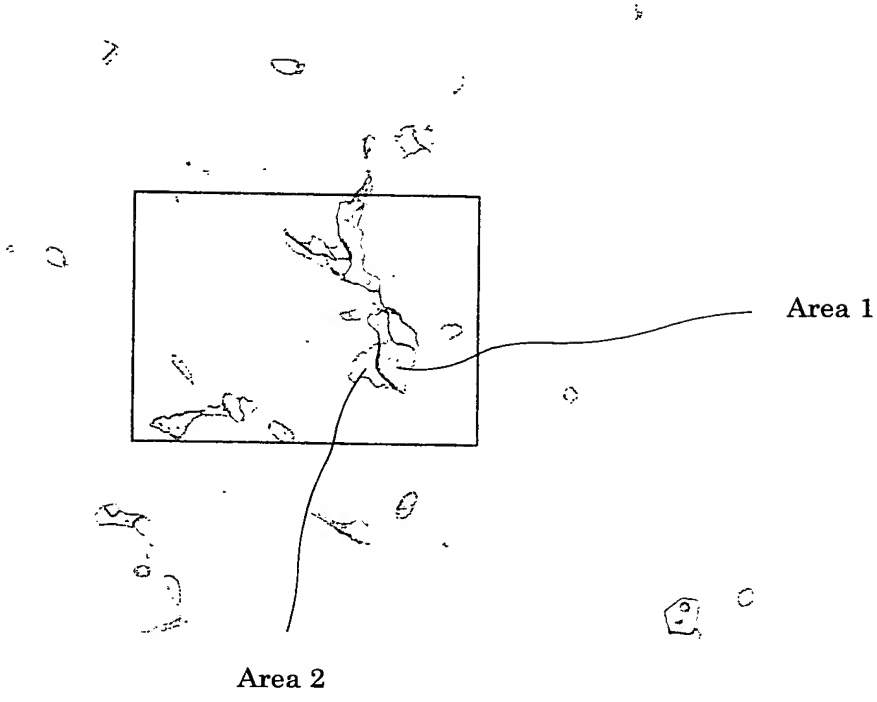


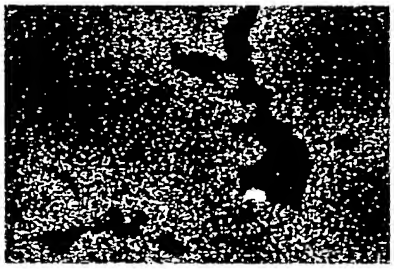
FIG.13

Copper Ka1

Zinc Ka1

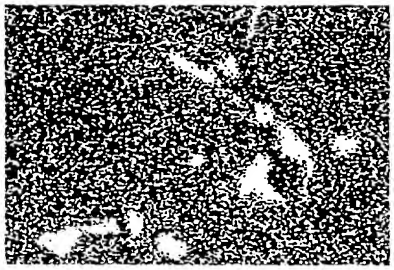
Selenium Ka1

Lead La1



Tin La1

Bismuth La1



Phosphorus Ka1

FIG.14

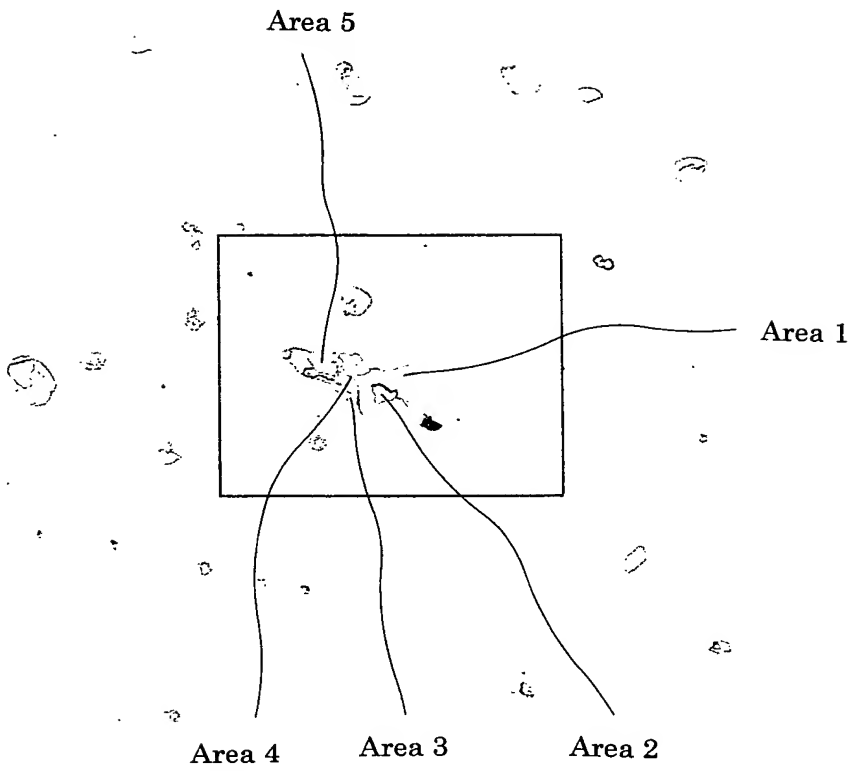


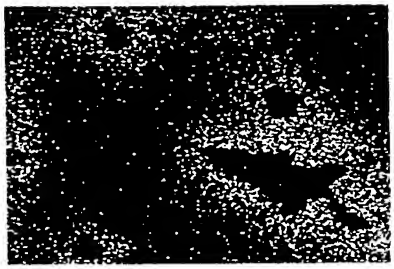
FIG.15

Copper Ka1

Zinc Ka1

Selenium Ka1

Lead La1



Tin La1

Bismuth La1

Tellurium La1

FIG.16

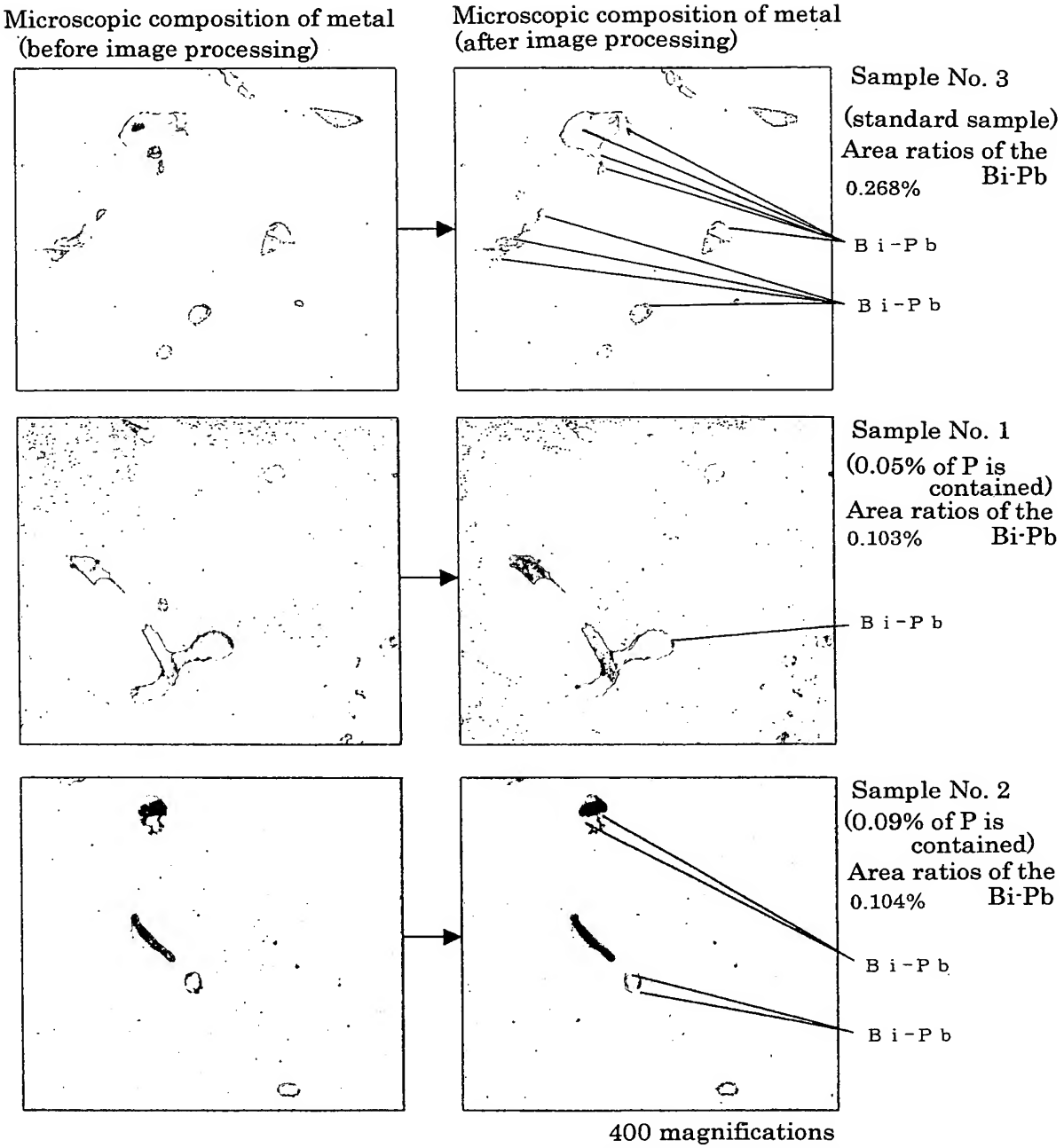


FIG.17